

Arch Chemicals, Inc.
Innovation & Technology Center
1200 Bluegrass Lakes Parkway
Suite 100
Alpharetta, GA 30004
Tel: 678.624.5800



P-7

September 8, 2011

Nuclear Materials Safety Branch
U.S. Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, PA 19406-1415
Licensing Assistance Section

Attn.: Thomas Thompson
License Assistance Team

RE: Submission of Decommissioning Records
Material License No. 06-08166-03
Docket No. 030-36891
575795

Subsequent to the letter dated August 10, 2011, additional information is submitted to address the requirement for submission of decommissioning records.

10 CFR 30

(g) Each person licensed under this part or Parts 32 through 36 and 39 of this chapter shall keep records of information important to the decommissioning of a facility in an identified location until the site is released for unrestricted use. Before licensed activities are transferred or assigned in accordance with § 30.34(b), licensees shall transfer all records described in this paragraph to the new licensee. In this case, the new licensee will be responsible for maintaining these records until the license is terminated. If records important to the decommissioning of a facility are kept for other purposes, reference to these records and their locations may be used. Information the Commission considers important to decommissioning consists of—

(1) Records of spills or other unusual occurrences involving the spread of contamination in and around the facility, equipment, or site. These records may be limited to instances when contamination remains after any cleanup procedures or when there is reasonable likelihood that contaminants may have spread to inaccessible areas as in the case of possible seepage into porous materials such as concrete. These records must include any known information on identification of involved nuclides, quantities, forms and concentrations.

There was no occurrence of any spills of this nature.

(2) As-built drawings and modifications of structures and equipment in restricted areas where radioactive materials are used and/or stored, and of locations of possible inaccessible contamination such as buried pipes which may be subject to contamination. If required drawings are referenced, each

— 575795
NMSS/RGN1 MATERIALS-002

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relevant document need not be indexed individually. If drawings are not available, the licensee shall substitute appropriate records of available information concerning these areas and locations.

Radioactive materials were used only in typical laboratories with no structural modifications. Equipment that would result in possible inaccessible contamination was restricted to typical laboratory hoods and sink traps. These were surveyed as part of the submitted decommissioning survey.

(3) Except for areas containing only sealed sources (provided the sources have not leaked or no contamination remains after any leak) or byproduct materials having only half-lives of less than 65 days, a list contained in a single document and updated every 2 years, of the following:

(i) All areas designated and formerly designated restricted areas as defined in 10 CFR 20.1003 (For requirements prior to January 1, 1994, see 10 CFR 20.3 as contained in the CFR edition revised as of January 1, 1993):

These areas are defined in the submitted decommissioning survey.

(ii) All areas outside of restricted areas that require documentation under § 30.35(g)(1).

There are no areas meet these criteria.

(iii) All areas outside of restricted areas where current and previous wastes have been buried as documented under 10 CFR 20.2108; and

The licensee did not bury or incinerate any radioactive waste on site, or dispose of any radioactive waste to the sanitary sewer. Manifests for off-site disposal by licensed contractors have been submitted.

(iv) All areas outside of restricted areas that contain material such that, if the license expired, the licensee would be required to either decontaminate the area to meet the criteria for decommissioning in 10 CFR part 20, subpart E, or apply for approval for disposal under 10 CFR 20.2002.

No such areas exist.

(4) Records of the cost estimate performed for the decommissioning funding plan or of the amount certified for decommissioning, and records of the funding method used for assuring funds if either a funding plan or certification is used.

No decommissioning funding plan is required under the provisions of the license.

20.2103(b)(4) Records of surveys

No radioactive effluents were released to the environment.

Arch Chemicals, Inc.
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1200 Bluegrass Lakes Parkway
Suite 100
Alpharetta, GA 30004
Tel: 678.624.5800



We also were licensed to possess Ni-63 sealed sources for electron capture gas chromatography detectors. This provision was removed from our license by amendment in 2007 after all of the sources were disposed of. The final leak tests for these sources are attached.

Source S/N	Disposition	Final wipe test
A-3822	Returned to Varian	6/19/1985
S-8256	Exchanged for S-8104	1/27/1986
S-8104	Exchanged for S-10430	4/27/1987
S-10430	Exchanged for S-10646	11/9/1987
H-2694	Exchanged for H-3577	11/9/1988
S-9987	Exchanged for S-11125	11/30/1989
L-0135	Returned to Hewlett Packard	6/8/1993
H-3577	Returned to Hewlett Packard	6/8/1993
A-1206	Sent to Barnwell	6/8/1993
1549	Sent to Barnwell	6/8/1993
1048	Sent to Barnwell	6/8/1993
1006	Sent to Barnwell	6/8/1993
L-0200	Exchanged for L-3750	10/20/1994
S-11125	Returned to Hewlett Packard	5/2/1995
S-10646	Returned to Hewlett Packard	5/2/1995
218701	Sent to Barnwell	4/25/1997
L-3750	Returned to Hewlett Packard	10/21/1998
A-10933	Returned to Varian	2/27/2007

Sincerely,

A handwritten signature in black ink, appearing to read "James Ritter".

James Ritter
Consulting Scientist
Arch Chemicals, Inc.
1200 Bluegrass Lakes Parkway
Alpharetta, GA 30004
678-624-5821
jritter@archchemicals.com

Nuclear Radiation Development

2927 All Blvd. North Grand Island, New York 14072
 Telex: 91-579 Telephone: 716-773-7634

SOLD TO: **OLIN RESEARCH CENTER**
350 KINGSLEY DRIVE
IP-O, BOX 566
CHESHIRE, CT 06410-0566
ACCOUNTS PAYABLE

NRD

000220

SHIP TO:

6-19-85

ATTN: R. J. THOMAS

CUSTOMER NO: **RC-04228**

DATE OF ANALYSIS
6-19-85

24 WIPB TEST RESULTS
 SET. # S: 59987, 1048, 1006, 1549, H2694,
 50236, A3822, A1206
 WIPBS TAKEN 4/30/85

LEAK TEST CERTIFICATE

NUMBER OF SAMPLES ANALYZED **24**

LEAK TEST METHOD **WIPES**

RADIOACTIVE MATERIAL **N1 63**

PERSON PERFORMING TEST

L. Murphy

SAMPLE ANALYZED IN A **X**

WINDOWLESS GAS FLOW PROPORTIONAL COUNTER

ALPHA SCINTILLATION COUNTER

LIQUID SCINTILLATION COUNTER

OTHER

TESTS ARE WITHIN PRESCRIBED LIMITS

X

GREATER THAN PRESCRIBED LIMITS

()

TEST RESULTS

WIRE NUMBER	MODEL NUMBER	SERIAL NUMBER	MICROCuries / SAMPLES
Entrance	59987	"	Less than .0001
Housing	"	"	"
Exit	"	"	"
Entrance	1048	"	"
Housing	"	"	"
Exit	"	"	"
Entrance	1006	"	"
Housing	"	"	"
Exit	"	"	"
Entrance	1549	"	"
Housing	"	"	"
Exit	"	"	"

SIGNED

TITLE

DATE

Emmett Cleckley, Jr.
Emmett Cleckley, Jr.
 June 19, 1985

Nuclear Radiation Developments

2227 Albion North • Grand Island, New York 14072
Phone 716-628 Telephone 716-774-7734

SOLICITATION #0111

350 Knobler Dr., P.O. Box 5160
Cincinnati, OH 45118-0560
Account #744410

006/016

SHIP TO: **R. J. Thomas** DATE: **1-27-86**
ATTN: **R. J. Thomas**

CUSTOMER #: **NRD-46** DATE OF ANALYSIS: **1-27-86**

27 Wipe Test Results
 Set. # H3694, S8256, A1206, S9987, L0200,
 LI735, 1000, 1549, 1048
 Wiper Taken: 10-24-85, 10-24-85, 11-1-85,
 11-1-85, 11-4-85, 11-4-85,
 11-4-85, 11-4-85, 11-4-85

LEAK TEST CERTIFICATE

NUMBER OF SAMPLES ANALYZED (27)	ANALYSIS	T. Murphy
LEAK TEST METHOD	WIPES		
RADIOACTIVE MATERIAL	NI-63		
PERSON PERFORMING TEST			
SAMPLE ANALYZED IN A	(<input checked="" type="checkbox"/>)	WINDOWLESS GAS FLOW PROPORTIONAL COUNTER	
	(<input type="checkbox"/>)	ALPHA SCINTILLATION COUNTER	
	(<input type="checkbox"/>)	LIQUID SCINTILLATION COUNTER	
	(<input type="checkbox"/>)	OTHER	

TESTS ARE WITHIN PRESCRIBED LIMITS ()
 GREATER THAN PRESCRIBED LIMITS ()

TEST RESULTS		
WIPE NUMBER	MODEL NUMBER — SERIAL NUMBER	MICROCURIES / SAMPLES
Entrance	H2694	Less than .0001
Housing	"	"
Exit	"	"
Entrance	S8256	"
Housing	"	"
Exit	"	"
Entrance	A1206	"
Housing	"	"
Exit	"	"
Entrance	S9987	"
Housing	"	"
Exit	"	"

SIGNED *Eugene Oleksy Jr.*
 TITLE **Eugene Oleksy Jr.**
 DATE **January 27, 1986**

NRD Inc. A Subsidiary of Mark IV Industries Inc.

2937 Al Blvd. North - Grand Island, New York 14072
 Telex: 91-578 Telephone: 716-773-7634

SOLD TO

OLIN CORPORATION
 120 Long Ridge Road
 P.O. Box 1355
 Stamford, CT 06904
 Accounts Payable

SHIP TO

OLIN RESEARCH CENTER
 350 Knotter Drive
 P.O. Box 586
 Cheshire, CT 06410
 Attn: R. Thomas

001349

5-29-87

CUSTOMER P.O.
AC-CD42

NRD S.O.

DATE OF ANALYSIS

4-27-87

15 WIPR TEST RESULTS

\$200.00

\$ 200.00

Serial #'s: S8104, H2694, A1206, L0135, S9987

Wipes taken: 4/20/87

LEAK TEST CERTIFICATENUMBER OF SAMPLES ANALYZED: 15LEAK TEST METHOD: WipesRADIOACTIVE MATERIAL: Ni 63

PERSON PERFORMING TEST:

/ ANALYSIS Thomas B. Wilkinson

SAMPLE ANALYZED IN A

- () WINDOWLESS GAS FLOW PROPORTIONAL COUNTER
 () ALPHA SCINTILLATION COUNTER
 () LIQUID SCINTILLATION COUNTER
 () OTHER

TESTS ARE WITHIN PRESCRIBED LIMITS

()

GREATER THAN PRESCRIBED LIMITS

()

TEST RESULTS

WIRE NUMBER	MODULE NUMBER	SERIAL NUMBER	MICROCURIES / SAMPLES
Entrance	BCD	S 8104	Less than .0001
Housing	"	"	"
Exit	"	"	"
Entrance	BCD	H 2694	Less than .0001
Housing	"	"	"
Exit	"	"	"
Entrance	ECD	A 1206	Less than .0001
Housing	"	"	"
Exit	"	"	"
Entrance	BCD	L 0135	Less than .0001
Housing	"	"	"
Exit	"	"	"
Entrance	"	"	"
Housing	"	"	"
Exit	"	"	"
S 9987			Less than .0001
TITLE			"
DATE			"

Eugene Oleksy, HP

5-28-87

NRD Inc. A Subsidiary of Mark IV Industries Inc.

2937 All Blvd. North - Grand Island, New York 14072
 Telex: 91-578 Telephone: 716-779-7634

SOLD TO

OLIN CORPORATION
 120 Long Ridge Road
 P.O. Box 1355
 Stamford, CT 06904
 Accounts Payable

SHIP TO

OLIN RESEARCH CENTER
 350 Knotter Drive
 P.O. Box 586
 Cheshire, CT 06410
 Attn: Thomas

CUSTOMER R.O.
HC-PTI1727

NRD S.O.

001550

12-17-87

DATE OF ANALYSIS

11-9-87

15 WIPE TEST RESULTS \$200.00 15 0 \$200.00

Serial #'s: H2694, S10430, A1206, S9987,
 L0135
 Wipes taken: 10/27/87

LEAK TEST CERTIFICATENUMBER OF SAMPLES ANALYZED (**15**)LEAK TEST METHOD **Wipes**RADIOACTIVE MATERIAL **N1 63**

PERSON PERFORMING TEST

ANALYSIS **Thomas Wilkinson**

SAMPLE ANALYZED IN A () WINDOWLESS GAS FLOW PROPORTIONAL COUNTER
 () ALPHA SCINTILLATION COUNTER
 () LIQUID SCINTILLATION COUNTER
 () OTHER

TESTS ARE WITHIN PRESCRIBED LIMITS ()
 GREATER THAN PRESCRIBED LIMITS ()

TEST RESULTS

WIPE NUMBER	MODEL NUMBER	SERIAL NUMBER	MICROCURIES / SAMPLES
Entrance	H2694	"	Less than .0001
Housing		"	"
Exit		"	"
Entrance	S10430	"	"
Housing		"	"
Exit		"	"
Entrance	A1206	"	"
Housing		"	"
Exit		"	"
Entrance	S9987	"	"
Housing		"	"
Exit		"	"

SIGNED

TITLE

DATE

Eugene Oleksy
 December 17, 1987

NRD Inc. A Subsidiary of Mark IV Industries Inc.

2939 Alt Blvd. North - Grand Island, New York 14072
 Telex: 91-578 Telephone: 716-773-7634

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OLIN CORPORATION
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 P.O. Box 1355
 Stamford, CT 06904
 Accounts Payable

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OLIN RESEARCH CENTER
 350 Knotter Drive
 P.O. Box 586
 Cheshire, CT 06410
 Attn: R. J. Thomas

CUSTOMER P.O.
RC-CH5773

NRD'S.O.

001858**11-30-88**DATE OF ANALYSIS
11-9-88

18 WIPE TEST RESULTS \$300.00 18 0 \$300.00

Serial #'s: 810646, 89987, 107812, H2694,
 L0200, A1206
 Wipes taken: 10/24/88

LEAK TEST CERTIFICATENUMBER OF SAMPLES ANALYZED (18)LEAK TEST METHOD WipesRADIOACTIVE MATERIAL Ni-63

PERSON PERFORMING TEST

ANALYSIS

Thomas Wilkinson

SAMPLE ANALYZED IN A:

- | | | | |
|---|-------------------------------------|---|---|
| (| <input checked="" type="checkbox"/> |) | WINDOWLESS GAS FLOW PROPORTIONAL
COUNTER |
| (| <input type="checkbox"/> |) | ALPHA SCINTILLATION COUNTER |
| (| <input type="checkbox"/> |) | LIQUID SCINTILLATION COUNTER |
| (| <input type="checkbox"/> |) | OTHER |

TESTS ARE WITHIN PRESCRIBED LIMITS

(X)

GREATER THAN PRESCRIBED LIMITS

()

TEST RESULTS

WIPE NUMBER	MODEL NUMBER — SERIAL NUMBER <u>See Attached Sheet</u>	MICROCURIES / SAMPLES

SIGNED

TITLE Eugene Oleksy-HPDATE November 30, 1988*Eugene Oleksy*

NRD Inc. A Subsidiary of Mark IV Industries Inc.

2937 Al Blvd. North - Grand Island, New York 14072
 Telex: 91-578 Telephone: 716-773-7634

SOLD TO: Olin
 350 Knotter Drive
 Cheshire, CT 06410
 Accounts Payable

SHIP TO:**002112**

2/2/90

Attn: R. J. Thomas

NRD

CUSTOMER P.O. RC-CH10451	NRD S.O.
-----------------------------	----------

DATE OF ANALYSIS 11-30-89

12 Wipe Test Results \$200.00 12 \$200.00

Serial #: L0200, S10646, 218701, S9987
 Wipes taken: 10/30/89

LEAK TEST CERTIFICATE

NUMBER OF SAMPLES ANALYZED (12)

LEAK TEST METHOD Wipe Test

PERSON PERFORMING TEST

SAMPLE ANALYZED IN A	(<input checked="" type="checkbox"/>)	WINDOWLESS GAS FLOW PROPORTIONAL COUNTER
	(<input type="checkbox"/>)	ALPHA SCINTILLATION COUNTER
	(<input type="checkbox"/>)	LIQUID SCINTILLATION COUNTER
	(<input type="checkbox"/>)	OTHER _____

Gregory McClellan

TESTS ARE WITHIN PRESCRIBED LIMITS

()

GREATER THAN PRESCRIBED LIMITS

()**TEST RESULTS**

WIPE NUMBER	MODEL NUMBER	SERIAL NUMBER	MICROCuries / SAMPLES
Entrance	ECD	L0200	Less than .0001
Housing	ECD	L0200	Less than .0001
Exit	ECD	L0200	Less than .0001
Entrance	ECD	218701	Less than .0001
Housing	ECD	218701	Less than .0001
Exit	ECD	218701	Less than .0001
Entrance	ECD	S9987	Less than .0001
Housing	ECD	S9987	Less than .0001
Exit	ECD	S9987	Less than .0001
Entrance	ECD	S10646	Less than .0001
Housing	ECD	S10646	Less than .0001
Exit	ECD	S10646	Less than .0001

SIGNED

TITLE

DATE

Eugene Oleksy - HP

2/2/90

NRD Inc. A Subsidiary of Mark IV Industries Inc.

2937 Ali Blvd. North - Grand Island, New York 14072
 Telex: 91-578 Telephone: 716-773-7634

SOLD TO Olin Corporation
 350 Knotter DR
 Cheshire, CT 06410
 Attn: Accts Payable



003179

SHIP TO Olin Corporation
 350 Knotter Dr
 Cheshire, CT 06410
 Attn: John Bucciarelli

6/29/93

CUSTOMER P.O.# NRD S.O.
 RC-C417972

DATE OF ANALYSIS

6-29-93

7st Wipe Test Results \$50.00 7st \$350.00

Serial #L0200, A1206, 1549, 1048, L0135, 1006, H3577

Wipes Taken 5/13/93

LEAK TEST CERTIFICATE

NUMBER OF SAMPLES ANALYZED (21)

LEAK TEST METHOD Wipe TestRADIOACTIVE MATERIAL N163

PERSON PERFORMING TEST

ANALYSIS

Gregory McCellen

SAMPLE ANALYZED IN A	(<input checked="" type="checkbox"/>)	WINDOWLESS GAS FLOW PROPORTIONAL COUNTER
	(<input type="checkbox"/>)	ALPHA SCINTILLATION COUNTER
	(<input type="checkbox"/>)	LIQUID SCINTILLATION COUNTER
	(<input type="checkbox"/>)	OTHER

TESTS ARE WITHIN PRESCRIBED LIMITS

()

GREATER THAN PRESCRIBED LIMITS

()**TEST RESULTS**

WIPE NUMBER	MODEL NUMBER	SERIAL NUMBER	MICROCURIES / SAMPLES
Entrance	ECD	L0135	Less than .0001 uCi
Housing	ECD	L0135	Less than .0001 uCi
Exit	ECD	L0135	Less than .0001 uCi
Entrance	ECD	1549	Less than .0001 uCi
Housing	ECD	1549	Less than .0001 uCi
Exit	ECD	1549	Less than .0001 uCi
Entrance	ECD	1048	Less than .0001 uCi
Housing	ECD	1048	Less than .0001 uCi
Exit	ECD	1048	Less than .0001 uCi
Entrance	ECD	1006	Less than .0001 uCi
Housing	ECD	1006	Less than .0001 uCi
Exit	ECD	1006	Less than .0001 uCi

SIGNED

TITLE Eugene Oleksy - HPDATE 6/29/93

Continued on next page

NRD Inc. A Subsidiary of Mark IV Industries Inc.

2937 Alt Blvd. North - Grand Island, New York 14072
 Fax: 716-773-7744 Telephone: 716-773-7634

PUE 11/19/94

SOLD TO: Olin Research
 350 Knottter Dr.
 Cheshire CT 06410

003717

SHIP TO: Olin Research Center
 Attn: John Buccarelli
 350 Knottter Dr.
 CHESHIRE CT 06410

10/18/94

CUSTOMER P.O.: **NRD S.O.**
DATE OF ANALYSIS
10/20/94

4 sets Wipe Test Results	\$ 50.00	\$200.00
--------------------------	----------	----------

S/N EC218701, L0200, S10646, S11125

Wipes Taken: 10/10/94

PAID IN FULL ON CHECK # 213169

LEAK TEST CERTIFICATENUMBER OF SAMPLES ANALYZED (**12**)LEAK TEST METHOD **Wipe Test**RADIONACTIVE MATERIAL **Ni-63**

PERSON PERFORMING TEST _____

SAMPLE ANALYZED IN A

- () WINDOWLESS GAS FLOW PROPORTIONAL COUNTER
 () ALPHA SCINTILLATION COUNTER
 () LIQUID SCINTILLATION COUNTER
 () OTHER _____

Gregory McClellan

TESTS ARE WITHIN PRESCRIBED LIMITS

GREATER THAN PRESCRIBED LIMITS

TEST RESULTS

WIFE NUMBER	MODEL NUMBER	SERIAL NUMBER	MICROCURIANS / SAMPLES
Entrance	ECD	S11125	Less than .0001 uCi
Housing	ECD	S11125	Less than .0001 uCi
Exit	ECD	S11125	Less than .0001 uCi
Entrance	ECD	S10646	Less than .0001 uCi
Housing	ECD	S10646	Less than .0001 uCi
Exit	ECD	S10646	Less than .0001 uCi
Entrance	ECD	L0200	Less than .0001 uCi
Housing	ECD	L0200	Equals .0002 uCi
Exit	ECD	L0200	Less than .0001 uCi
Entrance	ECD	EC218701	Less than .0001 uCi
Housing	ECD	EC218701	Less than .0001 uCi
Exit	ECD	EC218701	Less than .0001 uCi

SIGNED

TITLE

DATE

Eugene Olekay, Health Physicist

10/20/94

NRD Inc. A Subsidiary of Mark IV Industries Inc.

2737 Alt Blvd. North Grand Island, New York 14072
 Fax 716-773-7744 Telephone 716-773-7634

SOLD TO

Olin Corporation
 350 Knobler Dr
 Cheshire CT 06410

SHIP TO

Olin Corporation
 Attn: John Euccinelli
 350 Knobler Dr
 Cheshire CT 06410

003532

04/27/95

CUSTOMER P.O.

NRD S.O.

DATE OF ANALYSIS
05/02/95

4 sets	Wipe Test Results	\$ 50.00	\$ 200.00
--------	-------------------	----------	-----------

S/N 810646, 811125, 12750 & EC0213701

Wipes Taken: 04/17/95

PAID IN FULL ON CHECK # 270549

LEAK TEST CERTIFICATE

NUMBER OF SAMPLES ANALYZED (12)

LEAK TEST METHOD

Wipe Test

RADIOACTIVE MATERIAL

Ni-63

PERSON PERFORMING TEST

Gregory McClellan

SAMPLE ANALYZED IN A

- () WINDOWLESS GAS FLOW PROPORTIONAL COUNTER
 () ALPHA SCINTILLATION COUNTER
 () LIQUID SCINTILLATION COUNTER
 () OTHER _____

TESTS ARE WITHIN PRESCRIBED LIMITS

()

GREATER THAN PRESCRIBED LIMITS

()

TEST RESULTS

WIPE NUMBER	MODEL NUMBER — SERIAL NUMBER	MICROCURIES / SAMPLES
* * SEE ATTACHED SHEET * *		

SIGNED

TITLE

DATE

 Eugene Oleksy, Health Physicist
 05/02/95

NRD Inc. A Subsidiary of Mark IV Industries Inc.

2937 Alt Blvd. North Grand Island, New York 14072
 Fax 716-773-7744 Telephone: 716-773-7634

SOLD TO

Olin Chemicals Research
 Accounts Payable
 350 Knotter Drive
 Cheshire CT 06410

SHIP TO

Olin Chemicals Research
 Attn: J. Ritter
 350 Knotter Drive
 Cheshire CT 06410

CUSTOMER P.O.

NRD S.O.

04/24/97

DATE OF ANALYSIS
 04/25/97

4102

2 sets Wipe Test Results \$ 50.00 \$ 100.00

S/N L3750, 218701
 Wipes Taken: 04/15/97

LEAK TEST CERTIFICATE

NUMBER OF SAMPLES ANALYZED (6)
 LEAK TEST METHOD Wipe Test
 RADIOACTIVE MATERIAL Ni-63
 PERSON PERFORMING TEST _____ / ANALYSIS Gregory McClellan
 SAMPLE ANALYZED IN A () WINDOWLESS GAS FLOW PROPORTIONAL COUNTER
 () ALPHA SCINTILLATION COUNTER
 (X) LIQUID SCINTILLATION COUNTER
 () OTHER _____

TESTS ARE WITHIN PRESCRIBED LIMITS (X)
 GREATER THAN PRESCRIBED LIMITS ()

TEST RESULTS

WIPE NUMBER	MODEL NUMBER — SERIAL NUMBER	MICROCURIES / SAMPLES
Entrance	ECD	Less than .0001 uCi
Housing	L3750	Less than .0001 uCi
Exit	L3750	Less than .0001 uCi
Entrance	ECD	Less than .0001 uCi
Housing	218701	Less than .0001 uCi
Exit	218701	Less than .0001 uCi

SIGNED

TITLE

DATE

Brandon L. Gruber
 Brandon L. Gruber, Health Physicist
 04/25/97

ORIGINAL CERTIFICATE

NRD Inc. A Subsidiary of Mark IV Industries Inc.

2937 Alt Blvd. North Grand Island, New York 14072
 Fax 716-773-7744 Telephone: 716-773-7634

SOLD TO

Arch Chemicals Physicist
 111 East 14th St
 Cleveland, OH 44110

SHIP TO

Arch Chemicals Physicist
 111 West 14th St
 Cleveland, OH 44110

4349

CUSTOMER P.O.

NRD S.O.

DATE OF ANALYSIS

10/21/98

100%

Wipe Test Results

\$ 0.00

\$ 50.00

C/N L3750

Wipe Taken: 10/11/98

Dated 10/11/98 - Vicks

LEAK TEST CERTIFICATENUMBER OF SAMPLES ANALYZED (3)LEAK TEST METHOD Wipe TestRADIOACTIVE MATERIAL Ni-63

PERSON PERFORMING TEST _____

Gregory McClellan

SAMPLE ANALYZED IN A

- WINDOWLESS GAS FLOW PROPORTIONAL COUNTER
- ALPHA SCINTILLATION COUNTER
- LIQUID SCINTILLATION COUNTER
- OTHER _____

TESTS ARE WITHIN PRESCRIBED LIMITS

(X)

GREATER THAN PRESCRIBED LIMITS

()

TEST RESULTS

WIPE NUMBER	MODEL NUMBER	SERIAL NUMBER	MICROCURIES / SAMPLES
Entrance	ECD	L3750	Less than .0001 uCi
Housing		L3750	Equal to .0005 uCi
Exit		L3750	Less than .0001 uCi

SIGNED

TITLE
DATE

Lawrence Keating, Health Physicist
 10/21/98

ORIGINAL CERTIFICATE

IMPORTANT DOCUMENT

Keep this certificate and future leak test records for display on request by an inspecting radiation official. Failure to supply records may result in a citation, suspension of your license, and/or a fine.

CERTIFICATE OF LEAK TEST

The Electron Capture Detector (ECD) indicated below has been surveyed for external radioactive contamination as indicated in the Ni⁶³ Radiation Safety Manual, Publication 03-913999-00, paragraph 3.

Isotope: Ni⁶³

ISO 2919 Classification C42211

Activity: 666 MBq Maximum (15mCi)

Date: 2/27/07

ECD Serial No: A10933

Model No.: 02-001972-00 Source Serial No: _____

The removable radioactivity from the surface of this ECD cell was measured to be:

00001 microcuries

Note: Varian Chromatography Systems is required by the U.S. NRC and the California Department of Health to inform you that the Ni⁶³ ECD must be leak tested every 36 months.

The California Department of Health - Radiation Authority has granted an extension of the time required between leak tests (for Varian ECDs) from the standard 6 month interval, to a 36 month interval per "Registry of Radioactive Sealed Sources and Devices, Safety Evaluation of Devices," Number CA662D101B, which is on file with all radiation authorities.

Larry Steinwandt
Radiation Safety Officer
Varian Chromatography Systems
2700 Mitchell Drive
Walnut Creek, CA 94598